

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-339361  
 (43)Date of publication of application : 07.12.2001

(51)Int. Cl. H04J 11/00

H04L 1/00

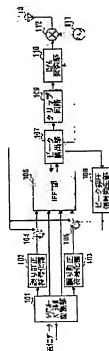
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(54) UNIT AND METHOD FOR MULTI-CARRIER COMMUNICATION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a multi-carrier communication unit that can suppress peak power while preventing reduction of transmission efficiency.

SOLUTION: A serial/parallel conversion section 101 converts transmission data of one sequence into transmission data of a plurality of sequences, outputs the transmission data of the 1st and 4th sequences respectively to error correction coding sections 102, 103 and outputs the transmission data of the 2nd and 3rd sequences to an IFFT(Inverse Fast Fourier Transform) section 106. The IFFT section 106 uses the transmission data of the 2nd and 3rd sequences and the transmission data of the 1st and 4th sequences after the error correction coding processing to generate an OFDM signal. A peak detection section 107 detects the peak power of the generated OFDM signal. When the detected peak power exceeds a threshold value, the IFFT section 106 reproduces the OFDM signal by using a peak suppression signal from a peak suppression signal generating section 108 in place of the transmission data of the 1st and 4th sequences.



LEGAL STATUS

[Date of request for examination]

14.02.2001

[Date of sending the examiner's  
decision of rejection]

[Kind of final disposal of application  
other than the examiner's decision of  
rejection or application converted  
registration]

[Date of final disposal for  
application]

[Patent number]

3461157

[Date of registration]

15.08.2003

[Number of appeal against examiner's  
decision of rejection]

[Date of requesting appeal against  
examiner's decision of rejection]

[Date of extinction of right]